

In re Application of WILLIAMS et al.  
Serial No. 09/849,170

**Listing of the Claims:**

1. (currently amended): A computer system, comprising,  
a writing instrument that generates, using a ballistic information generator that generates ballistic information about self-movement, movement information including acceleration information from a user's handwriting; and  
a conversion component that utilizes the acceleration information to generate line thickness information.
2. (original): The computer system of claim 1, wherein the writing instrument is a pen.
3. (previously presented): The computer system of claim 1, wherein the writing instrument comprises an accelerometer configured to generate the acceleration information.
4. (previously presented): The computer system of claim 3, wherein the accelerometer generates analog movement information, and wherein the writing instrument comprises an analog-to-digital converter for converting the analog movement information to digital data.

In re Application of WILLIAMS et al.  
Serial No. 09/849,170

5. (original): The computer system of claim 4, wherein the conversion component is located remote from the writing instrument, and further comprising transmitting the digital data to the conversion component.

6. (original): The computer system of claim 5, wherein the digital data is transmitted via a wireless connection.

7. (original): The computer system of claim 5, wherein the digital data is transmitted via a hardwired connection.

8. (original): The computer system of claim 3, wherein the accelerometer is configured to generate tilt information.

9. (previously presented): A computer system, comprising,  
a writing instrument that generates, using a ballistic information generator, movement information including acceleration information from a user's handwriting;  
and

a conversion component that utilizes the acceleration information to generate line thickness information based upon spacing of plots in a map of a plot of the movement information.

10. (original): The computer system of claim 9, wherein the thickness information is based upon the samples/unit distance of the plots.

In re Application of WILLIAMS et al.  
Serial No. 09/849,170

11. (original): The computer system of claim 10, wherein the thickness information increases a thickness component as the samples/unit distance increase.
12. (previously presented): The computer system of claim 3, wherein the conversion component generates thickness information based upon wavelengths of the movement information.
13. (original): The computer system of claim 12, wherein the thickness information increases a thickness component as the wavelengths increase.
14. (original): The computer system of claim 1, wherein the conversion component is located remote from the writing instrument, and further comprising transmitting the digital data to the conversion component.
15. (original): The computer system of claim 14, wherein the digital data is transmitted via a wireless connection.
16. (original): The computer system of claim 14, wherein the digital data is transmitted via a hardwired connection.

In re Application of WILLIAMS et al.  
Serial No. 09/849,170

17. (previously presented): The computer system of claim 9, wherein the movement information comprises tilt information.
18. (previously presented): A computer system, comprising,  
a writing instrument that generates movement information including acceleration and tilt information from a user's handwriting; and  
a conversion component that utilizes the acceleration information to generate line thickness information based upon spacing of plots in a map of a plot of the tilt information.
19. (original): The computer system of claim 18, wherein the thickness information is based upon the samples/unit distance of the plots.
20. (original): The computer system of claim 19, wherein the thickness information increases a thickness component as the samples/unit distance increase.
21. (previously presented): The computer system of claim 1, wherein the movement information comprises pulses having wavelengths.
22. (original): The computer system of claim 21, wherein the thickness information increases a thickness component as the wavelengths increase.